

SPE B. Utech

SPE RESPONSE FOR CERTIFICATE OF CORRECTION

10/018, 673

Paper No.: \_\_\_\_\_

DATE : 6/21/05

TO SPE OF : ART UNIT 1722

SUBJECT : Request for Certificate of Correction on Patent No.: 6722872

A response is requested with respect to the accompanying request for a certificate of correction.

Please complete this form and return with file, within 7 days to:

Palm location 7580, Certificates of Correction Branch – South Tower – 9A22

If response is for an IFW, return to employee (named below) via PUBSCofC Team in MADRAS.

With respect to the change(s) requested, correcting Office and/or Applicant's errors, should the patent read as shown in the certificate of correction (COCIN)? No new matter should be introduced, nor should the scope or meaning of the claims be changed.

Lamonte M. Newsome

Thank You For Your Assistance

Certificates of Correction Branch

Tel. No. 703-305-8309

The request for issuing the above-identified correction(s) is hereby:

Note your decision on the appropriate box.

Approved All changes apply.

Approved in Part Specify below which changes do not apply.

Denied State the reasons for denial below.

Comments:

Changes to col. 1, col. 6 and col. 8 approved.

Change to title page denied as form PTO/SB/44 contained typographical error. "by days. days." should be " by 249 days."

DUANE SMITH  
SUPERVISORY PATENT EXAMINER



1722

SPE

Art Unit

UNITED STATES PATENT AND TRADEMARK OFFICE  
CERTIFICATE OF CORRECTIONPATENT NO. : 6,722,872 *b1*Page 1 of 1

APPLICATION NO.: 10/018,673

ISSUE DATE : April 20, 2004

INVENTOR(S) : William J. Swanson et al.

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Title Page, ( \* ) Notice:Line 3, delete "by days.days.", insert -- by 224 days. -- *X*Col. 1.  
"by 249 days")Line 40, delete "base", insert -- base. -- *ok*Col. 6.Line 41, delete "96.", insert -- 96, -- *ok*Col. 8.Line 15, delete "pace", insert -- place -- *ok*Line 19, delete "alterative,", insert -- alternative, -- *ok*

## MAILING ADDRESS OF SENDER (Please do not use customer number below):

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This collection of information is required by 37 CFR 1.322, 1.323, and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Attention Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

MAY 24 2005



US006722872B1

(12) **United States Patent**  
Swanson et al.

(10) Patent No.: US 6,722,872 B1  
(45) Date of Patent: Apr. 20, 2004

(54) **HIGH TEMPERATURE MODELING APPARATUS**

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(\*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 249 days.

(21) Appl. No.: 10/018,673 *224*

(22) PCT Filed: Jun. 23, 2000

(86) PCT No.: PCT/US00/17363

§ 371 (c)(1),  
(2), (4) Date: Dec. 13, 2001

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PCT Pub. Date: Dec. 28, 2000

#### **Related U.S. Application Data**

(60) Provisional application No. 60/140,613, filed on Jun. 23, 1999.

(51) **Int. Cl.**<sup>7</sup> ..... B29C 41/02; B29C 41/36

(52) **U.S. Cl.** ..... 425/225; 425/226; 425/375

(58) **Field of Search** ..... 425/225, 226,  
425/375

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## ABSTRACT

Disclosed is a three-dimensional modeling apparatus (10) that builds up three-dimensional objects in a heated build chamber (24) by dispensing modeling material from a dispensing head (14) onto a base (16) in a pattern determined by control signals from a controller (140). The motion control components (18, 20) of the apparatus (10) are external to and thermally isolated from the build chamber (24). A deformable thermal insulator (132) forms a ceiling of the building chamber, allowing motion control of the dispensing head (14) in an x, y plane by an x-y gantry (18) located outside of and insulated from the build chamber (24). In the preferred embodiment, a material dispensing outlet (66) of the dispensing head is inside the chamber. Thermal isolation of the motion control components from the build chamber allows the chamber to be maintained at a high temperature.

**22 Claims, 7 Drawing Sheets**

